

The Elements of the Electrostatic Interaction Operator Matrix for One Electron Outside a Half-Filled Shell of d Electrons, by A. V. Karosene, and A. Iu. Savukinas, et al, 19 p.

RUSSIAN, per, Litovskii Fizicheskii Sbornik, Vol IV, No 2, 1964, pp 213-231. 9699177
AFCL T-R-465

A. V. KAROSENE

Sci-Elec
Mar 66

294,406

Rural Electrification During Seven-Year Plan, by
N. Kharlamov.

RUSSIAN, per, Voprosy Ekonomiki, No 6, ^{Moscow,} 1959,
pp. 36-39.

FD/Transportation Communications
and Electric Power in the USSR,
No 19.

USSR
Econ
Aug 59

93,910

A Necessary and Timely Step, by N. Karotam,
3 pp.

RUSSIAN, per, Voprosy Ekonomiki, Vol I, No 3,
1958, pp 28-34.

Internatl Arts and Sci Press
Vol I, No 5

USSR
Econ
Sep 58

74,033

The Effect of Composition, Heat and Electro-
lytic Treatment on the Dielectric Properties
of Steatite Ceramics, by K. A. Vedkovskiy,
B. G. Karov, 11 pp.

RUSSIAN, per, Iz Vyssh Ucheb ZameZaved. Fiz.
ENGIN No 5, 1962, pp 55-61. 6469149

FTD-TT-62-1800

Sci-Chem, Phys
Apr 63

226,700

Physicochemical Properties of the Ammonium
Molybdate - Ammonium Chloride - Water Syst
Z. G. Karov, F. M. Parol'man, 3pp.

RUSSIAN, per, Zhur Neorgan Khim, No 3, 19
pp 713-719.

Cleaver-Bane P:

Sci

Oct 60

130,142

(DC-5745)

Reform of Commercial Schools, by M. Karovic,
7 pp.

CROATIAN, per, Nova Irgovina, Vol XIV, No 3,
1961, pp 167-170.

JPRS 8446

EEur - Yugoslavia

Soc

158, 160

Jul 61

Mechanism of the Arbusov Rearrangement Reaction of α, β -Dibromodiethyl Ether with Phosphites, by V. S. Abramov, G. A. Karp, 10 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXIV, No 18, 1954, pp 1823-1834. CIA C 42157

Consultants Bureau

Sci - Chemistry

35,136

Jun 1956/dex

On the Combination of Normal Serum and of Serum
of Allergic Patients With Histamine, by Kurt,
Wallenfels, Lothar Eury, Ernst Sunda, 3 pp.

GERMAN, par, Klin Wochenschr, Vol XXXVI, Aug 1958,
pp 777-778.

2

WIN 3-49

Sci - Med

Apr 59

85,419

The Behaviour of Sulphur When Operating Open-
Hearth Furnaces on Natural Gas With Auto-Carbureting,
by S. F. Karp, I. I. Kobesa, G. I. Mikhailov, et al,
3 pp.

RUSSIAN, per, Stal, No 12, 1960, pp 1075-1077.

BISI

Sci

May 61

152, 432

Quantity of Oxide Inclusion in Killed [Low-Carbon]
Steel as Function of Way Aluminum Is Introduced for
a Decoxidation, by S. F. Karp.

RUSSIAN, per, Iz Vysishikh Ucheb Zaved, Chern Metal,
No 7, 1960, pp 49-53.

HB 4927

Sci - Min/Met

Apr 61

147,457

Use of Ore-Limestone Briquettes in Oxygen Side-
Blown Converter for Refining High- Phosphorus Iron,
by V. G. Fedorovich, S. F. Karp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met,
No 7, 1959, pp 35-39.

BB 4767

Sci - Engr

Oct 60

129,109

(NY-5090)

Cross-connection Wire Trademark PSKV, by L. M.
Kuperman, V. S. Karp, 5 pp.

RUSSIAN, per, Vestnik Svyazi, No 1, 1957.

JPRS 7024
5

Sci

Jul 61

159,401

(NY-5330)

IR-2 Device for Testing Dischargers, by V. S. Karp,
Ya. L. Litmanov, 7 pp.

RUSSIAN, per, Vestnik Svyazi, No 8, 1954.

JPRS 7112

Sci

Feb 61

140,693

Temperature Dependence of the Viscosity
Coefficient in Uni-valent Fused Salts, by
S. Karpachev, 11 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol VI, No 8,
1935, pp 1079-1085.

20,536

Sci Tr Center
RT-1811

Scientific - Chemistry

Jan 55
CTB

Karpachev, S., Rempel', S., and Iordan, E.
INVESTIGATION OF ANODE OVERVOLTAGE IN
FUSED MIXTURES OF CRYOLITE WITH ALUMINA.
[1963] 12p 1ref

Order from OTS or SLA \$1.60

63-18997

Trans. of Zhurnal Fiz[icheskoi] Khim[i] (USSR) 1949,
v. 23 [no. 4] p. 422-427.

DESCRIPTORS: *Aluminum compounds, Oxides,
*Cryolite, Mixtures, *Fused materials, *Electric
potential, Anodes.

The anode overvoltage in fused mixtures of cryolite with
alumina on carbon, graphite, and platinum electrodes
was investigated. It was shown that the anode potential
varies as a function of the current density according
to the equation $E = a + b \lg i$. The numerical values
of the coefficients b were determined for all of the
cases investigated. (Author)
(Chemistry--Physical, TT, v. 10, no. 11)

63-18997

- I. Title: Overvoltage
- I. Karpachev, S.
- II. Rempel', S.
- III. Iordan, E.

Office of Technical Services

On the Overvoltage of Hydrogen in the Fused
Electrolyte, by S. Karyachev, S. Reapel, E. Yordan,
14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 8, 1939,
1087-1091.

26, 708

Sci Trans Center
RT-2403

Scientific - Chemistry

Sep 55 CTS/DEX

Solubility of Lithium in Its Fused Chloride
Salt, by S. Karpachev, E. Jordan, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940, pp
1495-1497.

AEC TR 5217

Sci - Chem

Sep 58

73, 722

Investigation of Electrocapillary Phenomena in
Tin-Gold and Bismuth-Tellurium Alloys, by S.
Kuzma Karpachev, E. Rodigina.

RUSSIAN, per, Zhur Phys Khim, Vol XXIII, No 8,
1949, pp 953-958.

DSIR/31279/CT

Sci - Physics
Feb 58

58,839

57/2537

Determination of Transport Numbers of Cations and Anions in a Pure Molten Salt, by Karpachev, S., and Pal'guev, S.

RUSSIAN, per, Zhurnal Fizicheskoi Khimii, 1949, Vol 23, pp 942-952.

Sci ~~NCH~~ Museum Lib No 52/0420

A 2193

Also see AEC-1551

The Electrical Conductivity and Viscosity
of Fused Salts, by S. Karpachev, A. Stromberg,
9 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XI, No 6,
1938, pp 852-857.

20,537

Sci Tr Center
RT-1798

Scientific-Chemistry Jan 55 CTS

Study of the Electrical Conductivity and
Specific Gravity in a System of Fused Salts,
by S. Karpachev, A. Stromberg, O. Poltoratskaya,
17 pp. ~~UNCLASSIFIED~~

RUSSIAN, per, Zhur Fiz Khim, Vol V, No 6,
1934, pp 793-801.

20,538

Sci Tr Center
RT-1799

Scientific - Chemistry

Jan 55
CTB

On Solutions of Metallic Cadmium in Molten Chlorides,
by S. Karpachov, A. Stromberg, 12 pp.

RUSSIAN, per, Zhur'is Khim, Vol. XIII, 1939, pp
397-405. #

AEC 3382

Sci - Chem

Nov 58

76,437

On the Work of S. Pletenev and V. Rozov:
"Cathode Polarisation in the Electrolysis of
Melts", by S. Karpachev, 3 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 1,
1939, pp 147.

20,535

Sci Tr Center
BT-2018

Scientific - Chemistry

Jan 55
Rec'd CTS

Distribution of Carboxylic Acids Between Water and Kerosene, by S. M. Karpacheva, N. M. Adamakiy, et al, 9 pp.

RUSSIAN, per, Radiokhimiya, Vol III, No3, 1961, pp 284-290.

AEC-tr-4580

~~XXXXXXXXXX~~
PL-480

Sci
June 64

261,571

Features in the Distribution of Extracted Materials in
the Wash Part of Extraction-Wash Extractors
By S. M. Karpacheva and E. P. Rodionov, pp. 7

RUSSIAN, per, Atomnaya X Energiya, Vol XIII,
No 5, 1962, pp. 486 - 490

CB

Sci

~~240-884~~

Oct 63

241-288

Extraction of Cesium by Fatty Acids, by
S. M. Karpacheva, N. M. Adamskiy, et al,
14 pp.

RUSSIAN, per, Radiokhimiya, Vol. III, No 3, 1961,
pp 272-283.

AEC-tr-4580
PL-480

Sci
June 64

261,570

Features in the Distribution of Extracted Materials in
the Wash Part of Extraction-Wash Extractors
By S. M. Karpachaya and E. P. Rodionov, pp. 7

RUSSIAN, per, Atomnaya i Energiya, Vol XIII,
No 5, 1962, pp. 486 - 490

CB

Sci

240-775

Oct 63

Comparing the Effectiveness of Extraction by Means
of Pulse Packed Columns With Continuous Aqueous and
Organic Phases, by S. M. Karpacheva, E. P. Rodionov,
G. M. Popova, 2 pp.

RUSSIAN, per, Khim Prom, No 6, 1960, pp 496-499.

CIA/FDD XX-1090

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

Jan 62

178, 514

USIB INTERNAL USE ONLY

POLARIZATION OF GAS ELECTRODES IN CONTACT WITH
SOLID ELECTROLYTES, BY A. D. MERLIN,
S. V. KAPACHEV, 3 PP.

RUSSIAN, PER, DOK AN INAK OBR, VOL CXL, NO 3,
1962, PP 62-65.

CS

SCI - PHYS CHEM

SEP 62

207,630

Transition of Electronic Conduction Into Ionic
Conduction as Related to the Composition of Solid
Oxide Solutions, by S. F. Pal'guev, S. V.
Karpachev, A. D. Neimin, 4 pp

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXIV,
No 5, 1960, pp 1138-1141.

CB

Sci

May 61

153,021

The Operation of A ⁶Galvanic Cell With A Solid
Electrolyte Exhibiting Mixed Conductivity, by
S. V. Karpachay, S. P. Pal'gusov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXIII,
No 2, 1960, pp 396-398.

CB

Sci

149,204

Apr 61

Studies of Electrochemical Cells with Solid Electrolytes. I. The Temperature Dependence of the Electroactive Force of the Cell Ag/Ag₂S (solid)/Tung. by L. D. Tushina, S. S. Karpachov, N. A. Karpachov, 3 pp.

RUSSIAN, per Zhur Fiz Khim, Vol 7, No. 2, 1961, pp 342-349

Clearing-House Press

Sol.

181, 010

Jan 62

The Single Electrochemical Bond in Solid Electrolyte, by S. F. Pal'guyev, S. V. Karpachev, I. D. Yushina, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol ~~CXXXIX~~, No 6, 1959, pp 1339-1342.

CB

Sci

Oct: 60

130,030

Viscosity and Electrical Conductivity in the KCl-LiCl
System of Fused Salts, by S. V. ~~Podchayev~~ ^h ~~Podchayev~~, A. G. Stromberg,
V. N. Podchaynova, 18 pp. ^V ~~h~~

RUSSIAN, no per, Zhurn Obsh Khim, Vol ^V ~~h~~, No 11, 1935,
pp 1517-1526.

Sci Tr Center RT-775

11,005

Scientific - Chemistry

KARPACHEVA, B. M.

ROZEN. A, M.

Oxygen Exchange between Oxide Catalysts and Water Vapor.

DOKLADY AKADEMII ANUK SSSR, vol 175, 1950, No 1,
pp 55-9; 1600 words.

Brutcher No 2712, \$ 4.80

A-4709

On the Role of Diffusion in the Lattice of
Oxides in Reactions With the Oxidizing-
Reducing Mechanism and Oxygen Exchange, by
A. Rosen, S. Karyachava, 4 pp. UNCLASSIFIED

RUSSIAN, thrice-no per, Dok Ak Nauk, SSSR,
Vol LXXVIII, No 3, 1953, pp 507-510.

24,015 Navy Tr 1174/NERL 515

Scientific - Chemistry May 55 CTS/DEK

Karpacheva, S. M., Khorkhorina, L. P. and
Rozen, A. M.

SOME RESULTS ON THE EXTRACTION PROPERTIES OF TRIBUTYLPHOSPHATE (TBP) tr. by
J. B. Sykes. [1961] [20] p. 12 refs. [DSIR LLU]
M. 2597.

Order from OTS or SLA \$1.60

61-23280

Trans. in manuscript of Zhurnal Neorganicheskoi
Khimii (USSR) 1957, v. 2, no. 6, p. 1441-1447.

DESCRIPTORS: *Phosphates, *Butyl radicals, *Uranyl
radicals, *Nitrates, Solvent extraction.

The distribution of uranyl nitrate (from about 2 to 300
g/l in the aqueous phase) was measured in extraction
with an organic solvent containing TBP in concentrations
from 10 to 100%. The diluents used were dibutyl ether
and a saturated hydrocarbon fraction boiling at 170° to
(Chemistry--Physical, TT, v. 6, no. 9) (over)

61-23280

- I. Karpacheva, S. M.
- II. Khorkhorina, L. P.
- III. Rozen, A. M.
- IV. DSIR LLU M. 2597
- V. Atomic Energy Research
Establishment (Gt. Brit.)

Office of Technical Services

Relation of the ~~Quantity~~ Quality of Cathodic
Deposits of Nickel to the ~~Known~~ Presence of
~~Various~~ Impurities in the ~~Plating~~ Electrolyte,
by S. P. Palguez, M. V. ~~Stirnov~~, S. V. Karpachev,
4 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXVI, No 1,
Jan 1953, pp 50-54.

13,661

Consultants Bureau

Scientific - Chemistry

Micromorphological Study of Leaching and Podzolization
of Soils in a Forest, by L. O. Karpachevskiy, pp.
~~493-501.~~ 43-52.

RUSSIAN, per, Pochvovedeniye, No 5, 1960, pp. ~~43-52.~~ 493-500.

ADIS

Sci

167,513

Sept 61

The Full-In Range in Phase Automatic Frequency
Control, by M. V. Karpanov, 25 pp.
Unclassified,

RUSSIAN, per, Radiotekhnika, Vol XI, No 12, Dec
1956, pp 37-52. CIA 639192

ATTC F-TS-918⁹/V

Sci - Electronics

Nov 58

74 787

Nonstationary Radiation of Sound by a Piston, by
A. A. Kaspar'yants, 5 pp.

RUSSIAN, per, Akust Zhur, Vol VI, No 1, 1960,
pp 52-56.

AIP
Sov Phys-Acoustics
Vol VI, No 1

Sci

Sep 60

126,297

The Application of a Grid in the Radiotherapy
of Lung Cancer, by Vlahov, M. Karperov, 7 pp.

RUSSIAN, par, Voprosy Onkologii, Vol V, No 10,
1959, pp 449-454.

PP

Sci

Aug 60

124, 296

(NY-3458)
The Ultramicroscopic Structure of the Cytoplasm of
Tissue Cells of Animals as Seen Under Electron
Microscopy, by A. M. Karpas, 28 pp.

RUSSIAN, per, Tsitologiya, Vol I, No 2, 1959,
pp 153-171.

JPRS 2714

118,520

Sci - Biol

Jun 60

On the Quality Evaluation of Methods for
Checking Measurement Instruments, by I. V.
Damin-Barkovskiy, A. N. Karpishcheva, 8 pp.

RUSSIAN, per, Izmeritel Tekh, No 6, 1958,
pp 6-10.

Instra Soc of Amer

Sci

Apr 60

113,146

Hungarian View of the Red Chinese Line, by
Sandor Karpati, 12 pp.
HUNGARIAN, per, Tarsadalmi Szemle, No 10,
1964, pp 59-68.

JPRS 27299

EEur-Hungary
Pol
Jan 65

271,566

The Dependence of the Viscosity in Liquid Mixtures
of Salts KCl and $MgCl_2$, by S. Karpatschhoff, A. Strom-
berg, 3 pp.

Full translation.

GERMAN, per, Z. anorg. allgem. Chem., Vol CCXXII,
1935, pp 78-80.

S.L.A.

Scientific - Chemistry

25,915

Jul 55

About Chromosomes of Bean Species, by G. D.
Karpechenko,

RUSSIAN, per, Bull Applied Botany and Plant
Breeding, Leningrad, Vol XIV, 1925, pp 143-146.

INSDOC-T1862

Sci
Apr 59

84, 918

Preparation and Properties of Glassy-Oxide Semi-conductors of the $\text{VO}_{2.5}\text{-PO}_{2.5}\text{-Rn}_x$ Type, by L. A. Grechanik, N. V. Petrovych, V. G. Karpechenko, 8 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol II, No 9, 1960, pp 2131-2139.

AIP
Sov Phys - Solid State
Vol II, No 9

Sci

Apr 61

144, 5/6

Synthesis and Investigation of Certain Vanadium Glass
by I. I. Kitaigorodskiy, V. G. Karpechenko, 3 pp.

RUSSIAN, per, Steklo i Keramika, Vol XV, No 6,
1958, pp 8-10.

CB

Sci

Oct 60

129,241

The Influence of Certain Salting-Out Agents on the Distribution of Ureanyl Nitrate Between Aqueous Solutions and Extractants, by S. M. Karpachova, L. P. Khorkhorina, G. D. Agashkina, 14 pp.

RUSSIAN, per, Zhur Georg Khim, Vol II, No 4, 1957, pp 961-969.

ANC-tr-4054
PL-480

146,360

Sci

Apr 61

RGF No 21

Investigation Connected with the Technology and
Biochemistry of Hard-Smoked Sausages, per D.

Karpati.

RUSSIAN, per, Myasnaya Industriya, Vol. 33, No. 6,
1962, pp 54-58.

GB/320 (Anon)

D. KARPATI

Sci -

July 1967

334-713

Our People's Army - Defender of Our Socialist Home-
land and of Peace, by Ferenc Karpati, 4 pp.

HUNGARIAN, per, ~~KIMBERLY~~ Partalet, No 4, 1963,
Budapest, Hungary.

ID 2843110363

Kbur - Hungary

MI1

Jun 63

Cancerolytic Peptides of Directed Action.
Communication 4. New Sarcolysine Derivatives and
Their Use in the Synthesis of Peptides Having
Sarcolysine in Different Positions in the Peptide
Chain. by I. L. Knunyants. K. I. Karpavichus. 7 pp.

RUSSIAN, per. Iz Ak Nauk. Otdel Khim. Nauk. No 6
1962. pp 1024-1030.

CB

Sci

May 63

233,720

Carcinolytic Peptides With Selective Action.
Communication 3. N-[p-Bis(2-Chloroethyl) Amino-
phenylacetyl] Amino-Acids and N-(-[p-Bis(2-
Chloroethyl)aminophenyl[Butyryl) Amino-Acids, by
K. I. Karpavichus, N. E. Golubeva, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 7, 1961, pp 1299-1302.

CB

Sci

200,187

Jun 62

Catalytic Properties of Rhenium. Communication 2.
Dehydrogenation of Cyclohexane, by A. A. Balandin,
E. I. Karpeiskaya, A. A. Tolstopyatova, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 9,
1959, pp 1529-1535.

CB

Sci -
May 61

152,790

Investigation of the Catalytic Dehydrogenation
of Hydrocarbons and Alcohols Over Metallic
Rhenium, by A. A. Balandin, E. I. Karpeiskaya,
A. A. Tolstopyatova, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIII, No 2,
1958, pp 227-230.

CB

Sci - Chem
Oct 59

109,038

Cycloserine and Related Compounds XI. 4-Hydroxy-3-
Isoxazolidinone and Some of Its Derivatives, by
R. M. Khamutov, M. Ya. Karpeiskiy, Chang Chi-pin,
3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 9, 1960,
pp 3057-3063.

CB

170,721

Sci

Oct 61

OCT 61

Catalytic Properties of Rhenium. Communication 1.
Rhenium as a Dehydrogenation Catalyst, by A. A. Balandin,
E. I. Karpeiskaya, A. A. Tolstopyatova, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 8,
1959, pp 1365-1371.

CB

Sci -
May 61

152,755

Some Substituted 2-Aryl-5-Arylidene-1-Imidazolin-4-
Ones, by E. I. Budovskiy, R. M. Khomutov, M. Ya.
Karpeiskiy, 4 pp. et al.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 8, 1960,
pp 2569-2572.

CB

168,803

Sci

Sep 61

Cycloserine and Related Compounds. III.
Synthesis of Cycloserine, by N. K. Kochetkov,
R. M. Khomutov, M. Ya. Karpeiskiy, E. I.
Budovskiy, ~~10~~ pp.

RUSSIAN, per, Zhur Obskch Khim, Vol XXVIII,
No 11, 1958, pp 3013-3023.

Consultants Bureau

Sci

Dec 59

103, 157

**The Relationship Between Biological Activity and
Chemical Properties, by R. M. Khamatov, N. Ya.
Kuznetsov, 6 pp.**

**RUSSIAN, per, Biokhimiya, Vol LXVI, No 5, 1961,
pp 772-781.**

13

Sci

Jul 62

264,279

Chitinoglycosaminoglycans and Related Compounds.
By A. B. Arendaruk, E. I. Budovskiy,
E. S. Gennikh, M. Ye. Karpatskiy, E. I.
Rudakovskiy, A. P. Skoldov, M. V. Gaidar.
Moscow, A. Ya. Khorlin and N. E. Kochetkov,
1957.

CHITIN, for, Khim. Obozr. Khim., Vol. 10, No. 5, 1957, pp. 1312-1317.

Consultants Bureau

Doc. - Chem
Sup. SR

Investigation in the Decanols Series. IV. Synthesis of
some Amines of the Decanols Series, by N. K. Kochetkov,
E. D. Khomutova, M. A. Mayskiy, R. M. Khomutov, 4 pp.

RUSSIAN, per, Khim Oshchek Khim, Vol XXVII, No 12, 1977,
pp 3210-3213.

Consultants Bureau

Sci - Chem

Mar 79

82,189

The Mechanism of the Antibiotic Action of
Cycloserine, by N. K. Kochetkov, R. M. Khomutov,
M. Ya. Karpeiskiy, E. I. Budovskiy, E. S.
Severin, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVI, No 5,
1959, pp 1132-1134.

Amer Inst of Biol Sci

Sci

Jan 60

105,633

(SF-1872).

From Institute to Production, by G. Karpenko,
RUSSIAN, np, Ekonomicheskaya Gazeta, 1 Mar 1961,
p 3.

*JPRS

Sci - ~~Misc~~ *Engr*

23 May 61

SCI - EN GR

**Spherical Radial Parts of Laplace Operators on
Symmetric Spaces, by F. I. Karpolevic, 4 pp.**

**RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIII,
no 5, 1962, pp 1034-1037.**

**Amer Math Soc
Sov Math - Dok
Vol III, No 2**

Sci - Math

Sep 62

211, 614

63-16563

I. Karpelevich, F. I.

Karpelevich, F. I.
CHARACTERISTIC ROOTS OF MATRICES WITH NON-
NEGATIVE ELEMENTS. [1963] 51p. 1 ref.
Order from OTS or SLA \$5.60 63-16563

Trans. of Akad[emiya] Nauk SSSR. Izvestiya.
Ser[iya] Matemat[icheskaya] 1951, v. 15, no. 4,
p. 361-383.

DESCRIPTORS: *Matrix algebra, *Complex numbers,
Convex sets, Number theory, Sequences, Geometry.

The range of distribution of the characteristic roots of
matrices of the n-th order with non-negative elements
and fixed maximum of the modulus of characteristic
roots is determined. (Author)

(Mathematics, TT, v. 10, no. 10)

1252492

Office of Technical Services

Limit Theorems for the Compositions of Distribution
in the Lobachevsky Plane and Space, by F. I.
Karpolevich, V. N. Tutubalin, M. G. Shur, 3 pp.

RUSSIAN, per, Teoriya Veroyatnostey i Yeye
Primeneniya, Vol IV, No 4, 1959, pp ~~335-336~~
432-436

EEA SIAM

Sci

Jun 61

155,201

The Role of Oblique Exchange Interaction in the
Theory of Magnetism of Transition Metals and
Rare Earths. 2. Antiferromagnetism, by B. V.
Karpenko, A. A. Berdyshev, R. B. Zaks, 8 pp

RUSSIAN, per, Fiz Metal i Metallov, Vol IX,
No 4, 1960, pp 481-487

PP

Sci
May 61

159,007

Reaction of BaCO_3 With TiO_2 and ZrO_2 , by N. B. Karpenko, E. K. Keler, 7 pp.

RUSSIAN, per, Zhur Georgen Khim, Vol V, No 6, 1960, pp 1267-1282.

Cleaver-Hume Press

Possibly *AFIC MCL-755/2

Sci

Mar 61

142, 347

Cycloserine and Related Compounds. VI. Synthesis
of Analogs of Cycloserine with a Substituted
Amino Group, by R. M. Khomutov, M. Ya. Karpevskiy,
E. S. Severin, E. I. Budovskiy, N. K. Kochetkov,
7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 2,
1959, pp 642-649.

Consultants Bureau

Sci

Apr 60

112,369

Cycloserine and Related Compounds. VII. Synthesis
of 5-Methyl-4-Aminoisoxazolidone-3 (Cyclothreosine),
by R. M. Khomutov, M. Ya. Karpeiskiy, E. I. Budovskiy,
E. S. Severin, N. K. Kochetkov, 5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 4, 1959,
pp 1329-1332.

Consultants Bureau

Sci

Jun 60

111,421

Hydroxylamine Derivatives. Communication 4. Synthesis
of Cyclocaniline (Homocycloserine) and Related
Compounds, by R. M. Khosmitov, M. Ya. Karpeiskii, 5 pp.

RUSSIAN, per, Is Ak Nauk SSSR, Dokl Akad Nauk, No 12,
1962, pp 2161-2166.

CS

243, 151

Nov 63

Investigation in the Isoxazole Series. III. Synthesis
of Arylisoxazoles, by N. K. Kochetkov, E. D. Khotmutova,
M. Ya. Karpeisky, and A. Ya. Khorlin, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVII, No 2, 1957,
pp 452-458.

7

Consultants Bureau

Sci - Chem

Jul 58

67,241

A New Synthesis of Cycloserine, by N. K. Kochetkov,
R. M. Khomutov, M. Ya. Karpelsky, 4 pp.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol CXI,
No 4, Nov/Dec 1956, pp 831-834.

Consultants Bureau

Sci - Chem

56,696

Dec 57

Synthesis of Cycloserine, by N. K. Kochetkov,
H. P. Kucherova, M. Ya. Karpeinsky, V. M. Solov'yev,
4 pp.

RUSSIAN, thrice-as per, Dok Ak Nauk SSSR, Vol. CD.,
No 5, Jul/Aug 1956, pp 950-953.

Consultants Bureau

Sci - Chem

56,646

Doc 57

Application of Monographic Methods of Computation to
Spectrum Analysis, by R. N. Rubinshtein, H. G. Karpel',
2 pp.

Full translation.

RUSSIAN, also per, In Ak Nauk, Ser Fiz, Vol XIX,
No 1, 1955, p 128. CIA C 42053

Columbia Tech Tr

Scientific - Physics
May 56 CIB/dax

34,703

The Concept of Activity in Physical Chemistry, by H.
Vasilenco Karpen, 3 p.

FRENCH, pers, Comptes Rendus Acad des Sci, 1949,
Vol CCKXVIII, No 14, pp 1220-1222.

SLA 59-20560

Sci
MAR 60
Vol 3, No 1

110,881

Problems of Science and Technique: A Laboratory
Beyond the Reaches of the Earth, by A. Karganov,
7 pp.

Full tr

RUSSIAN, np, Sovetskaya Aviatsiya, No 154 (2712),
2 Jul 1957, p 4. CIA 665446

ATTC W-76-9299/III

Sci - Space Research
Nov 57

55,631

The First Step Into the Cosmos, by A. G. Karpenko,
8 pp. UNCL

RUSSIAN, np, Izvestiya, 9 Jun 1957, pp 4. 9660751

ATTC DEL-344/III

Sci - Space Res

Apr 61

~~Apr 61~~

SLR - 61-19311

149,448

Roads to the Cosmos, by A. G. Karpenko, 16 pp.
UNCL

RUSSIAN, per, Zvezda, No 10, 1958, pp 154-162.
9660873

ATTN MCL-329/III

Sci - Space Research

Apr 61

TELECOM
4-1790

149,451

Karpenko, A. G.
ROADS INTO COSMOS (Derogi v Kosmos). 18 Oct 60
[17]p. MCL-329/1.
Order from LC or SLA mi\$2.40, ph\$3.30 61-19315

Rough draft trans. of Zvezda (USSR) 1958, no. 10,
p. 154-162.

General information is reviewed on obstacles to space
flight, ways of reducing the weight of rockets, and the
possibilities of using rockets with an electric motive
system. Translations are included of a few of the
thousands of letters that were sent to the USSR Academy
of Sciences from persons from all over the world who
wanted to participate in the space flights.

(Engineering--Satellite Vehicles, TT, v. 5, no. 11)

61-19315

1. Space flight--Theory
2. Satellite vehicles--USSR
1. Karpenko, A. G.
- II. MCL-329/1
- III. Technical Information
Center, Wright-Patterson
AFB, Ohio

Office of Technical Services

Cosmic Laboratory, by A. G. Karpenko, 5 pp.

RUSSIAN, np, Moskovskaya Pravda, 1 Aug 1955, p 1.
CIA 9006302 V

Rand Corp Tr RM 1760

Sci - Aeronautics
Oct 57

54, 225

The Electrical Conductivity of Gases at High
Temperatures and Densities, by A. S. Kharpenko,
A. M. Markevich, Yu. N. Ryabinin, 9 pp.

RUSSIAN, per, Zhur Eksp'tl' i Teoret Fiz, Vol XXIII,
1952, pp 468-476.

Tr
AEC/2598

Sci - Electricity, physics
Nov 56 CES

40,466

The Importance of Indirect Interactions in the
Theory of Magnetization of Transition Metals
and Rare Earths, by A.A. Zordyshev, B.V.
Karpenko, 6 pp.

RUSSIAN; per. High Metal & Metallurgy, Vol. VIII,
No 3, 1959, pp 530-536

Sci
61.

135, 145

Indirect Exchange Interaction Through Current
Carriers in Semiconductors, by B. V. Karpenko,
A. A. Berdyshev, 6 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol V, No 12,
1963, pp 3397-3405.

Amer Inst of Phys
Sov Phys - Solid State
Vol V, No 12

Sci
Jul 64

262,389

The Indirect Interaction of d Electrons in
Transition Metals. II. Antiferromagnetism,
by B.V. Karpenko, A.A. Bardyshev, 3 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol
XXXVIII, No 3, 1960, pp 925-928.

AIP
Sov Phys - JETP
Vol XI, No 3

Sci
Nov 60

132, 849

Indirect Coupling of d Electrons in Transition
Metals, I. Ferromagnetism, by A. A. Bardyshev,
B. V. Karpenko, 3 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Ak Nauk
SSSR, Vol XXXVI (9), No 3, 1959, pp 819-822.

AIP

Sov Phys - JETP

Sci - Phys

Oct 59

100,018

New Method of Logarithmic Conversion in Electric-
Reading Densitometers, by Yu. P. Golitsynov,
E. S. Karpenko, 12 pp.

RUSSIAN, per, Zhur Nauch Priklad Foto Khimich,
Vol. VII, No 6, 1962, pp 447-453.

CIA/FDD MX-1046
No Foreign Dissem

Sci. & Eng.

Oct 63

USIB Internal Use Only

240, 218

**Effect of the Frequency of Stress Cycles Upon
the Endurance of Steel in Surface-Active and in
Corrosive Media, by G. Karpenko**

**RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXXXVII
No 5, 1952, pp 797-800.**

Brutcher Tr 3202

**Scientific - Minerals/Metals
CRS/DEX Price \$3.80**

9281